Translated and Shortened Version of the Questionnaire for Modeling Approach Evaluation

March 4, 2020

In the following we present a translated and shortened version of the questionnaire. The repetitive section was asked twice in a row within the questionnaire for the respective modeling approach (items 12 to 25 for LEMMA; 26 to 39 for UML). As response option in the repetitive section we use a ranking from 1 to 6 with the following scale: 1 (completely agree), 2 (agree), 3 (slightly agree), 4 (slightly disagree), 5 (disagree), 6 (completely disagree). In the comparison section we use single choice with LEMMA (L), UML (U) or both.

Item	Description	Response Option
Demographic Information		
1	University handle	numeric
2	Variant of the questionnaire	A|B
3	Master semester	numeric
4	Field of study of the Bachelor degree	list
5	Years of experience in software development	numeric
6	Self-assessment of modeling skills in general	ranking
7	Years of experience with UML	numeric
8	Self-assessment of UML skills	ranking
9	Years of experience with MDD	numeric
10	Self-assessment of MDD skills	ranking
11	Already familiar modeling languages	free text

Repetitive Section

12/26	I think «approach» is good for describing MSAs.	agreement
13/27	With «approach» the essential characteristics of an MSA can be described well.	agreement
14/28	I can remember the language elements of «approach» well.	agreement
15/29	«approach» is difficult to learn.	agreement
16/30	The use of «approach» is intuitive.	agreement
17/31	«approach» is easy to understand.	agreement
18/32	I can imagine using «approach» for future projects.	agreement
19/33	Planning errors in the architecture can be prevented by using «approach».	agreement
20/34	It is easy to make mistakes when modeling with «approach».	agreement
21/35	Modeling errors can be easily detected in «approach».	agreement
22/36	«approach» is a helpful modeling language in the context of MSAs.	agreement
23/37	The effort required to describe an MSA using «approach» is reasonable compared to the benefits.	agreement
24/38	The use of «approach» has a positive effect on a later implementation.	agreement
25/39	The use of «approach» is worthwhile for the development of MSAs.	agreement

Comparison Section

40	More suitable for modeling MSA?	L|U
41	More precise?	Both|L|U
42	Easier to learn?	Both|L|U
43	Greater benefit in relation to required effort?	Both|L|U